

LL. 4.C.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

869.

"BLISWORTH" SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~, ~~SAILER~~ "KATHLEEN" WITH TIMBER DECK CARGO
 WITHOUT

Nationality British Builders' Name and No. of Ship Ailsa S. B. & Co. Ltd. Ayr. N° 65
 Port of Registry LONDON Belfast Owners J. Milligan & Co. Grand Union (Shipping) London
 Official Number 113519 ✓ (Mgt. J. Kelly Ltd.)
 Gross Tonnage 738 ✓
 Date of Build 4/1902 Port and Date of Survey Belfast. November 1933
 Name of Surveyor J. H. Mersey
 Particulars of Classification B.S. Names of Sister Ships

Type of Superstructures Quarter, Bridge and Forecastle decks.

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Fiddley Covers, Steel, Hinged, permanently attached.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

30 Forecastle, on upper Dk, Steel, 1 Door each 15" Sills, STEEL W.T. DOOR. Wood door operated both sides.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Forecastle Dk.	Fore Fwd.	13 1/2"	Bolts 6 1/2"	Centres R. Q. Dk	No 2 Hatch Fwd	36"	Ri 4"
	Aft.	18"	Rivets 4 1/2"		Aft. PK.	36"	4"
Upper Dk	No 1 Hatch Fwd	33"	" 4"			16"	4"
	Aft	40"	" 4"				

Wood plugs & Canvas Covers.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Upper Dk Fore Pk. #36" R. Q. Dk No 2 Hatch Fwd. #30" Canvas Covers
 No 1 Hatch Centre #36" " 2 - Aft. 6"30" provided.
 Aft. PK. #30"

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

One Sanitary Discharge, Forward, S. Side, below Upper Dk with I.S.V.

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

In Forecastle, 3 Hinged P. & S. with deadlights.
 Bridge Space, 2 Hinged, P. & S. Bridge Front 5 Hinged, no deadlights. emergency wood plug provided
 Aft. Accommodation, 1 Hinged P. & S. with deadlights.

Guard Rails on freeboard and superstructure decks (state type and where fitted)

On Forecastle Dk, 36" high, 2 bar type, Stanchions 50" apart.



COMPUTATION OF FREEBOARD.

Length on summer load line **200' 0** Moulded Breadth **30' 3"** Moulded Depth **14' 3"** Depth of Keel **7 1/2"**
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} =$
 Displacement and tons per inch immersion in salt water at summer load line **1638 tons.**
 Moulded depth **14 2** Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches
 Stringer Plate Round of Beam Correction
 Sheathing on exposed deck T $(\frac{L-S}{L})$ Ships Round of Beam inches
 Rise of floor (in sailers) Standard Round of Beam $\frac{B \times 12}{50}$
 Depth for Freeboard (D) Difference
 Table Depth Restricted to
 Depth Correction Correction $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) -$
 If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck	102.67	F	3' 11"			
Bridge	12.83	A	7-0			
Forecastle	36'		7'			
Trunk Aft						
Forward						
Tonnage Opening Aft						
Forward						
Totals						

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.	265			1			
1/2 L from A.P.	27			4			
1/2 L from A.P.	25			2			
Amidships				4			
1/2 L from F.P.				2			
1/2 L	37			4			
F.P.	67.5			1			
				18			
Effective Mean Sheer							
Standard		.05L + 5					
Difference							

TABULAR FREEBOARD corrected for flush deck if required =
 Correction for co-efficient =

	+	-
Depth correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		

Summer Freeboard in inches =
 Additional allowance for superstructures on Timber carrying ships =
 Summer Timber Freeboard in inches =

DRAUGHTS AND SEASONAL CORRECTIONS
 Sailer, Tanker, Steamer
 Timber
 Depth to Freeboard Deck in feet
 Summer Freeboard in feet
 Moulded Draught (d)
 Addition for Keel
 Extreme draught
 Deduction for Tropical and addition for Winter freeboard d/4 = ins.
 Addition for Winter North Atlantic (if required) = ins.
 Deduction for Tropical Timber Freeboard $\frac{d}{4}$ = ins.
 Addition for Winter " " $\frac{d}{3}$ = ins.
 " " N.A. Timber Freeboard (if required) = ins.

Obtainable from owners.

assigned 7/11/33

Raised Quarter

Line	Position	Height	Corresponding Freeboard
SUMMER FREEBOARD	recommended amidships from centre of disc to top of deck line, (steel)		4'-8 1/4"
TROPICAL FRESH WATER LINE	above centre of disc	5"	4'-3 1/4"
FRESH WATER LINE	" " "	3"	4'-5 1/4"
TROPICAL LINE	" " "	2"	4'-6 1/4"
WINTER LINE	below " " "	2"	4'-10 1/4"
WINTER NORTH ATLANTIC LINE	" " "	4 1/4"	5'-1"
SUMMER TIMBER FREEBOARD	recommended amidships from centre of disc to top of deck line		
TROPICAL FRESH WATER Timber line	above centre of disc		
FRESH WATER	" " " " "		
TROPICAL	" " " " "		
WINTER	" " below " " "		
WINTER NORTH ATLANTIC	" " " " "		

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	-	-	-	-	-			
R.Q.D. "		.25	5-15" x .25 webs.			None		
Bridge Aft Bulkhead						None		
" Forward "	.3	.25	6 1/2 x 3 x .30	30"	Bkld Bottom.	None		
Forecastle Bulkhead	.25	.25	2 1/2 x 3 x .30	26"	Bkld Top.	1 @ 4-11 x 2-2	18"	7'-0"
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks	.34	.25	3 1/2 x 3 1/2 x .37	38"	Bkld Top	3 @ 5'-0 x 2'-0	18"	7'-0"
Exposed Machinery Casings on superstructure decks						1 @ 4'-9 x 1-10	16"	
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances								
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	no openings
R.Q.D. "	no openings
Bridge Aft Bulkhead	no openings
" Forward "	no openings
Forecastle Bulkhead	open 1 Hinged Steel Door on Port Side operated both sides
Exposed Machinery Casings on Freeboard or R.Q. decks	2 Steel doors to Fiddley, 1 Steel Door to Engine Room - insure fastenings
Exposed Machinery Casings on superstructure decks	1 Wood Door to Aft Accommodation, operated both sides.
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	
Deck houses on Flush Deck ships	

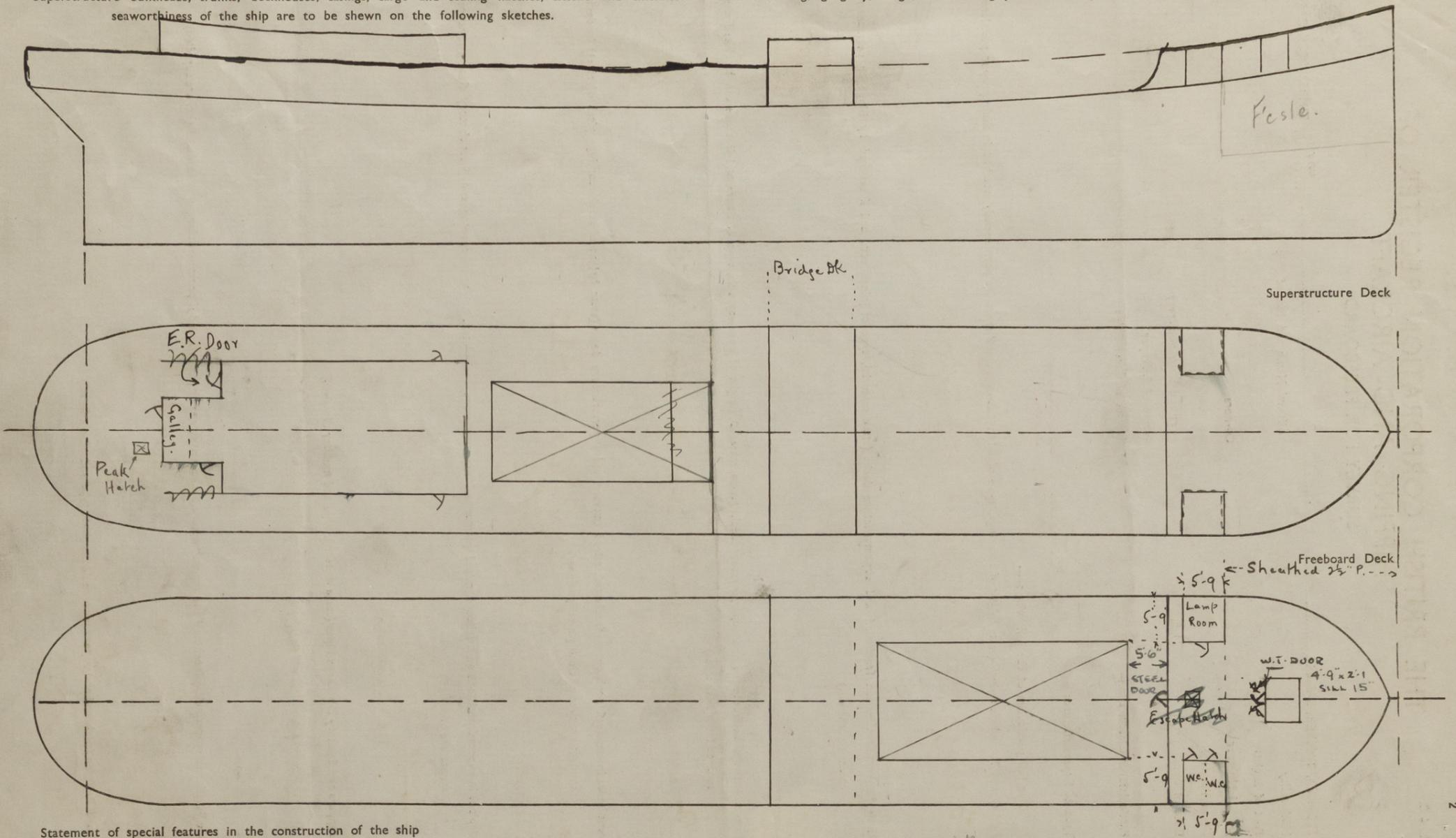
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	102'-8"	3'-3"	2 @ 2'-6" x 18" + 3 @ 3'-11"	21 sq ft	
Forward Well	48'-6"	4'-3"	3 @ 31" x 18"		
State fore and aft position and height above deck to bottom of port, for each port			After Well Forward Well		

State whether freeing ports are fitted with shutters, bars or rails, and give particulars
 Hinged Shutters. Rod fitted across opening
 Give particulars of freeing port area, etc., on superstructure decks



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches.

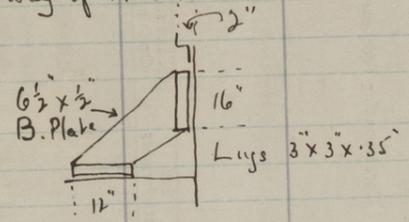


Statement of special features in the construction of the ship

PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

	R. Qr. Bk Upper Bk	UPPER Bk R. Qr. Bk	Escape Hatch fore end of	R. Gr. Bk
Number and description of Hatchway from forward	No 2	No 1	No 1 Hatch	Aft. PK. Hatch
Dimensions of Hatchway	33'-0" x 14'-0"	42'-2" x 16'-0"	24" x 24"	30" x 30"
COAMINGS	Height above steel deck	3'-0"	3'-0"	10 1/2"
	Thickness sides	.5"	.5"	.38"
	Thickness ends	.4"	.4"	Washed and hot d.
	Stiffeners	-	-	-
Brackets or Stays	3 (See Sketch)	4 (See Sketch)	-	-
HATCH BEAMS	Number	3	4	-
	Spacing	Ends 7'-4" Centres 9'-2"	Ends 7'-4" Centres 9'-2"	-
	Scantling and Sketch	7 1/2" x 3" x 28" + 3 1/2" x 5" 10'-2"	7 1/2" x 3" x 37" - 3 1/2" x 5" 10'-2"	-
	Bearing Surface and thickness of carriers or sockets	3" x 1/2"	3" x 1/2"	-
FORE AND AFTERS	Number	3	3	-
	Spacing	3'-6"	4'-0"	-
	Unsupported lengths	7'-0" and 9'-0"	7'-0" and 9'-0"	-
	Scantling and Sketch	C. 8" x 6" S. 7" x 5" with 1/2" plate	C. 8" x 6" S. 7" x 5"	-
Bearing Surface and thickness of carriers or sockets	2 1/2" x 1"	2 1/2" x 1"	-	
HATCH COVERS	Material	W.P.	W.P.	W.P.
	Thickness	2 1/4"	2 1/4"	2 1/4"
	How Fitted	alt.	alt.	alt.
	Bearing Surface	2"	2"	2 1/2"
	Spacing of Cleats	27"	24"	24"
Number of Tarpaulins	3	3	3	

Brackets on No 1 & 2 Hatch Coamings in way of Hatch Beams.



Are wood fore and afters steel shod at all bearing surfaces? *Yes*
 Are battens and wedges efficient and in good condition? *Yes*
 Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
 Are lashings provided in accordance with rule requirements? *Yes.*

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

COMPUTATION OF FREEBOARD

Gangways and Lifelines

None provided. Lifelines fitted each side in fore well and on R.P.B. suitably lashed down at intervals.

Gangway, Cargo and Coaling Ports in sides of ship

none

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

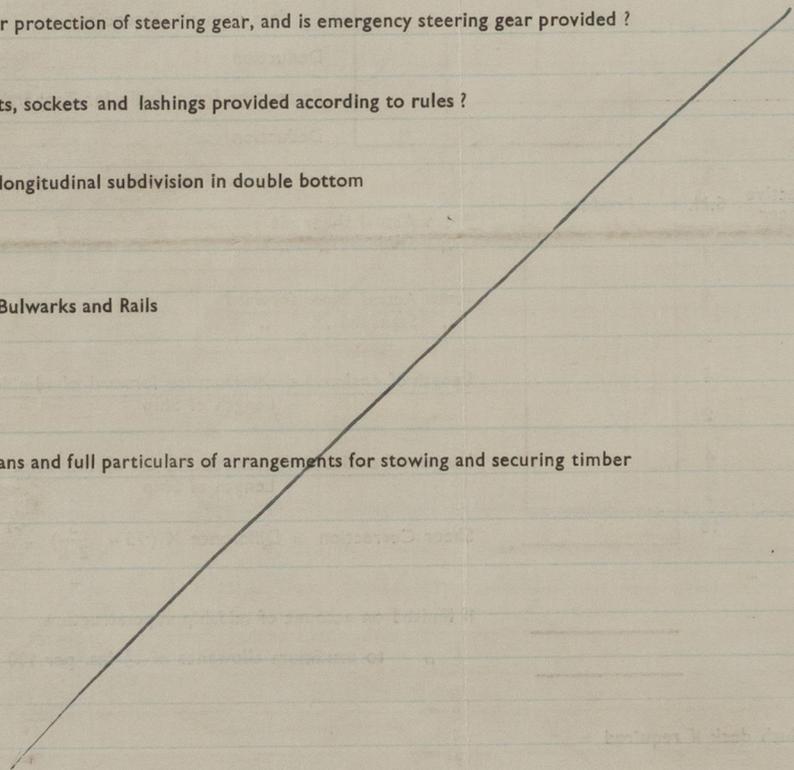
Is provision made for protection of steering gear, and is emergency steering gear provided?

Are efficient uprights, sockets and lashings provided according to rules?

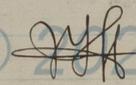
State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber



The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

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Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 31st January 1934



Lloyd's Register
Foundation Secretary.